

U.S.S.N. 09/714,469
Filed: November 16, 2000
AMENDMENT AND RESPONSE TO OFFICE ACTION

In the Claims

Claims 1-49 (canceled)

50. (currently amended) A polymer composition comprising a blend comprising poly-3-hydroxybutyrate-co-4-hydroxybutyrate (P3HB4HB) blend and a nucleant with no plasticizer, wherein the percentage of 4-hydroxybutyrate (4HB) in the P3HB4HB is between 16% and 99%.

51. (previously presented) The composition of claim 50 wherein the nucleant is boron nitride.

52. (previously presented) The composition of claim 50 wherein the nucleant is present at levels between 0.1 and 20 wt% of the blend.

53. (previously presented) The composition of claim 50 wherein the nucleant is present at levels between 1 and 10 wt% of the blend.

54. (currently amended) A method of producing a shaped polymeric object comprising melting a composition comprising a blend comprising poly-3-hydroxybutyrate-co-4-hydroxybutyrate (P3HB4HB) blend wherein the percentage of 4-hydroxybutyrate (4HB) in the P3HB4HB is between 16% and 99% and a nucleant with no plasticizer, and producing a shaped object therefrom by extrusion, molding, coating, spinning, blowing, thermoforming or calendaring processes or combinations of the processes.

55. (previously presented) The method of claim 54 wherein the nucleant is boron nitride.

56. (previously presented) A shaped object made according to claim 54.

57. (previously presented) A shaped object made according to claim 55.

58. (currently amended) A polymer composition comprising a blend comprising poly-3-hydroxybutyrate-co-4-hydroxybutyrate (P3HB4HB) blend and a nucleant with no plasticizer, wherein the nucleant is present at a level of 0.1 wt% of the composition.

59. (previously presented) The composition of claim 58 wherein the nucleant is boron nitride.

60. (currently amended) A method of producing a shaped polymeric object comprising melting a composition comprising a blend comprising poly-3-hydroxybutyrate-co-4-hydroxybutyrate (P3HB4HB) blend and a nucleant with no plasticizer, and producing a shaped object therefrom by extrusion, molding, coating, spinning, blowing, thermoforming or

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calendaring processes or combinations of the processes, wherein the nucleant is present at a level of 0.1 wt% of the composition.

61. (previously presented) The method of claim 60 wherein the nucleant is boron nitride.

62. (previously presented) A shaped object made comprising the composition of claim 59.

63. (previously presented) A shaped object made according to claim 60.

64. (currently amended) A polymer composition comprising a blend comprising poly-3-hydroxybutyrate-co-4-hydroxybutyrate (P3HB4HB) blend and a nucleant with no plasticizer wherein the composition is capable of forming a film having elongation.

65. (currently amended) The composition of claim 64 wherein the elongation at break is in the range between 560% 850% and 1100%, and following film formation, between 560% and 780%, as measured by tensile testing on molded bars (5x2 mm section, 42 mm gauge length, 10 mm/min crosshead speed) (4 mm wide, 20 mm gauge length).

66. (previously presented) The composition of claim 64 wherein the nucleant is present at a level between 0.1 and 20 wt% of the composition.

66. 67. (previously presented) The composition of claim 64 wherein the nucleant is present at a level between 1 and 10% of the composition.

67. 68. (currently amended) A method of producing a shaped polymeric object comprising melting a composition comprising a blend comprising poly-3-hydroxybutyrate-co-4-hydroxybutyrate (P3HB4HB) blend and a nucleant with no plasticizer, and producing a shaped object therefrom by extrusion, molding, coating, spinning, blowing, thermoforming or calendaring processes or combinations of the processes, wherein the composition is capable of forming a film having elongation.

68. 69. (currently amended) The method of claim 67 68 wherein the elongation at break is in the range between 560% 850% and 1100%, and following film formation, between 560% and 780%, as measured by tensile testing on molded bars (5x2 mm section, 42 mm gauge length, 10 mm/min crosshead speed) (4 mm wide, 20 gauge length).

69. 70. (currently amended) The method of claim 67 68 wherein the nucleant is present at a level between 0.1 and 20 wt% of the composition.

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~~70.~~ 71. (currently amended) The method of claim ~~67~~ 68 wherein the nucleant is present at a level of 1 to 10% of the composition.

~~71.~~ 72. (currently amended) The method of claim ~~68~~ 69 wherein the nucleant is present at a level between 0.1 and 20 wt% of the composition.

~~72.~~ 73. (currently amended) The method of claim ~~68~~ 69 wherein the nucleant is present at a level of 1 to 10% of the composition.

~~73.~~ 74. (currently amended) The method of claim ~~67~~ 68 wherein the nucleant is boron nitride.

~~74.~~ 75. (currently amended) A shaped article made according to the method of claim ~~67~~ 68.

~~75.~~ 76. (currently amended) A shaped article made according to the method of claim ~~68~~ 69.